In [2]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from seaborn import load_dataset
```

In [3]:
```
dataset = sns.load_dataset("titanic")
```

In [7]:
```
dataset.head()
```

Out[7]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_m
0	0	3	male	22.0	1	0	7.2500	S	Third	man	Tr
1	1	1	female	38.0	1	0	71.2833	C	First	woman	Fa
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	Fa
3	1	1	female	35.0	1	0	53.1000	S	First	woman	Fa
4	0	3	male	35.0	0	0	8.0500	S	Third	man	Tr

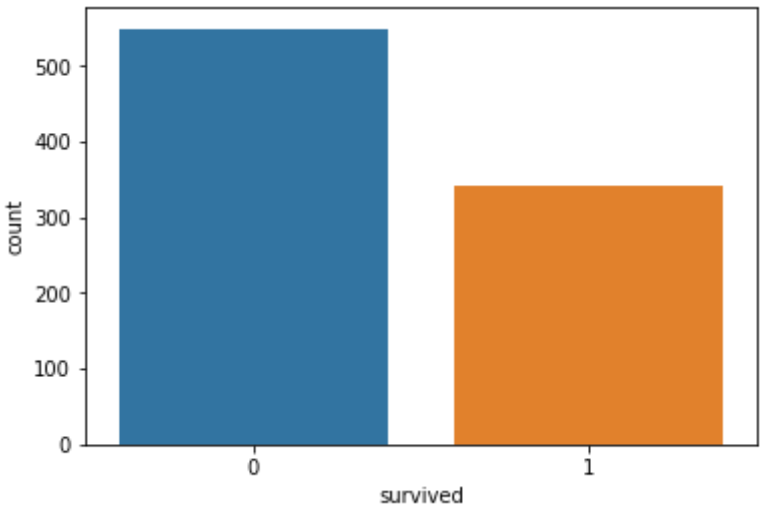
In [8]:
```
tips = load_dataset("tips")
```

In [9]:
```
tips.head()
```

Out[9]:

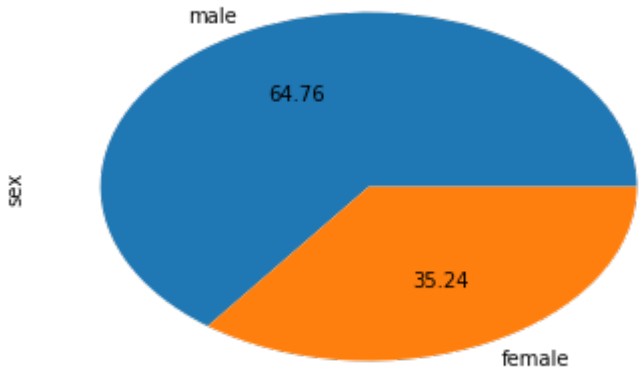
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

In [16]:
```
sns.countplot(dataset['survived'])
plt.show()
```

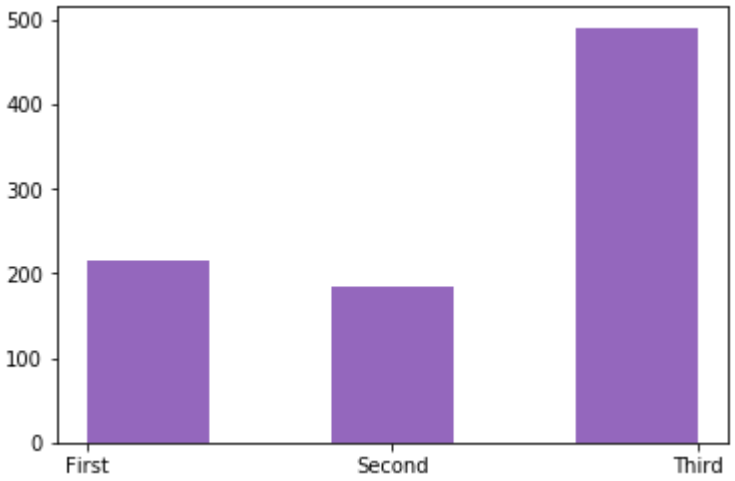


In [18]:
```
dataset['sex'].value_counts().plot(kind="pie", autopct="%.2f")
```

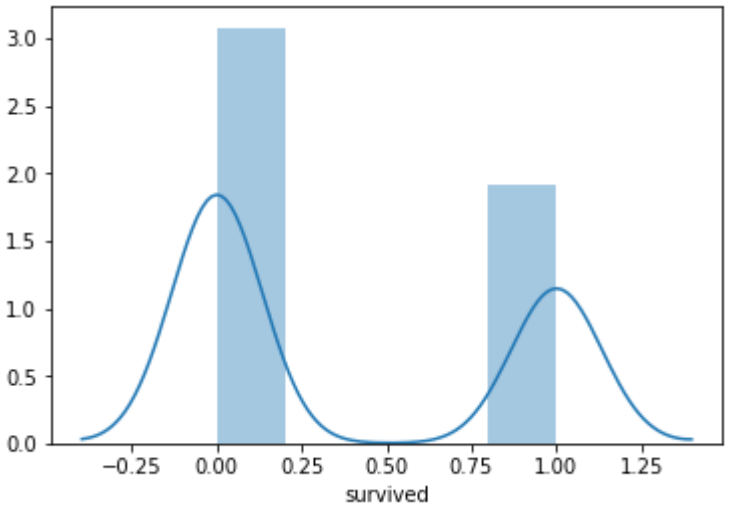
```
plt.show()
```



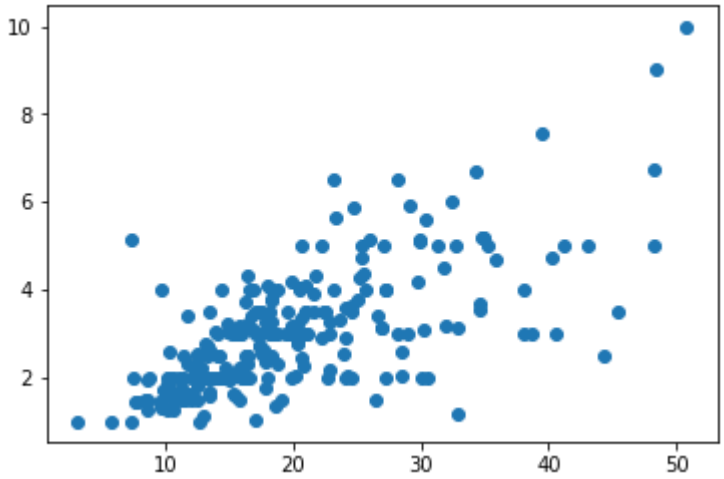
In [25]:
```
plt.hist(dataset['class'], bins=5)
plt.show()
```



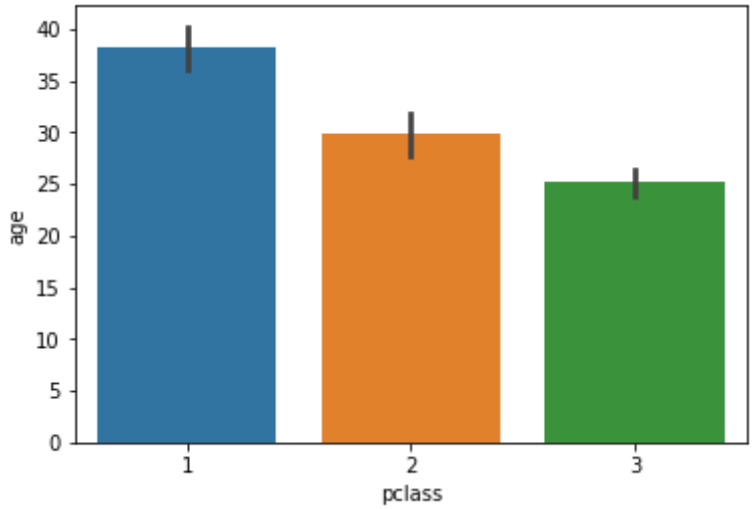
In [30]:
```
sns.distplot(dataset['survived'])
plt.show()
```



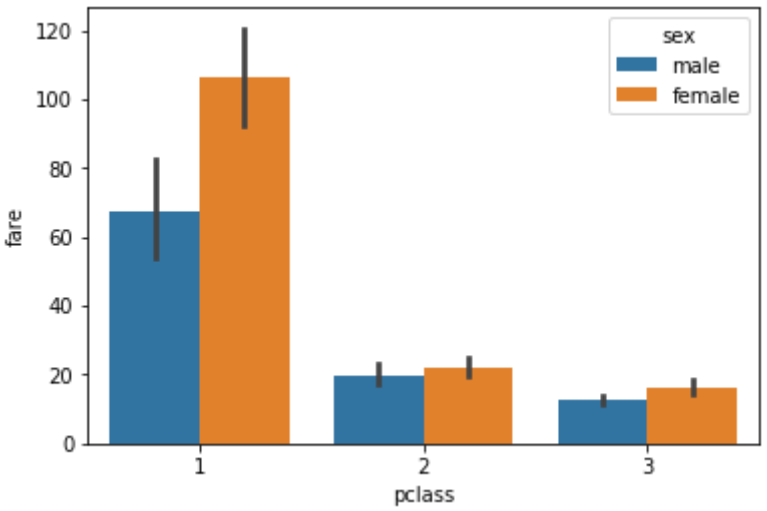
In [42]:
```
plt.scatter(tips["total_bill"], tips["tip"])
plt.show()
```



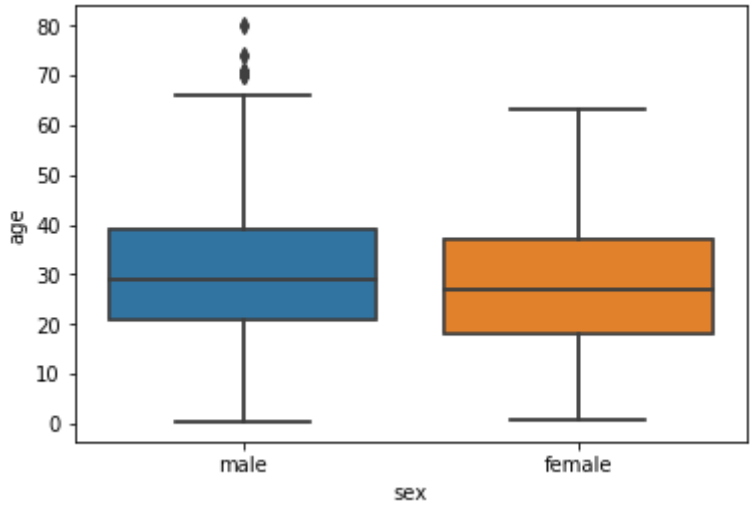
In [48]:
```
sns.barplot(dataset['pclass'], dataset['age'])
plt.show()
```



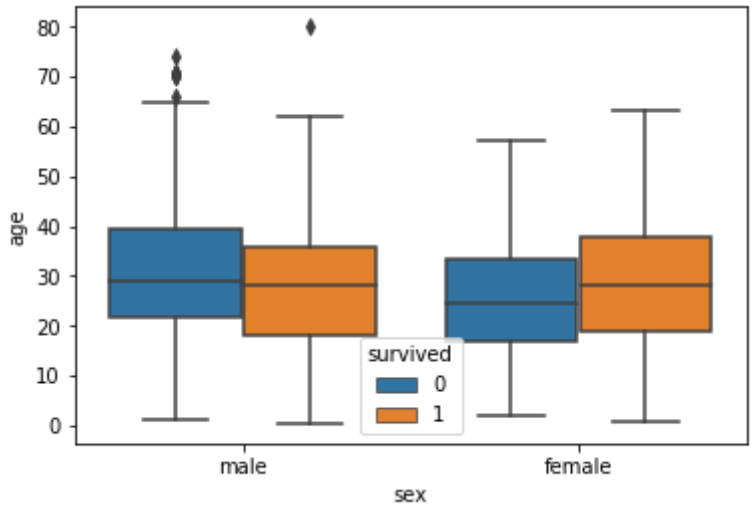
In [52]:
```
sns.barplot(dataset['pclass'], dataset['fare'], hue = dataset["sex"]
plt.show()
```



In [56]:
```
sns.boxplot(dataset['sex'], dataset["age"])
plt.show()
```

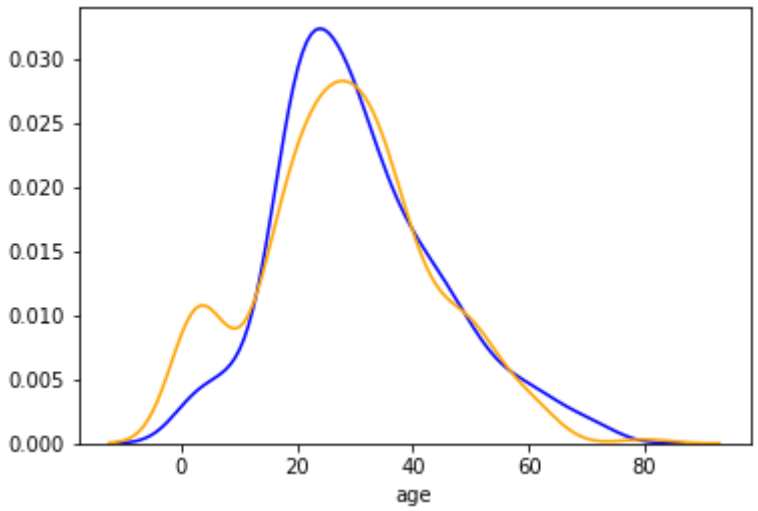


In [58]:
```
sns.boxplot(dataset['sex'], dataset["age"], dataset["survived"])
plt.show()
```



In [60]:
```
sns.distplot(dataset[dataset['survived'] == 0]['age'], hist=False, c
sns.distplot(dataset[dataset['survived'] == 1]['age'], hist=False, c
plt.show()
```

```
/home/student/anaconda2/lib/python2.7/site-packages/statsmodels/no
nparametric/kde.py:454: RuntimeWarning: invalid value encountered
in greater
  X = X[np.logical_and(X>clip[0], X<clip[1])] # won't work for two
columns.
/home/student/anaconda2/lib/python2.7/site-packages/statsmodels/no
nparametric/kde.py:454: RuntimeWarning: invalid value encountered
in less
  X = X[np.logical_and(X>clip[0], X<clip[1])] # won't work for two
columns.
```

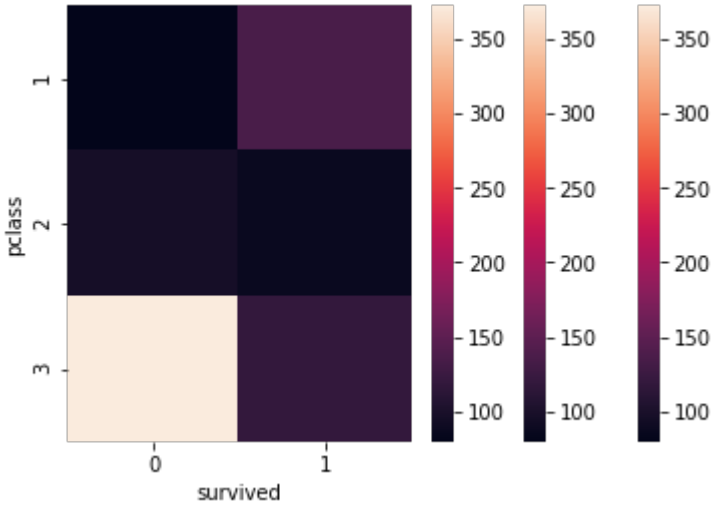


In [64]:
```
pd.crosstab(dataset['pclass'], dataset['survived'])
```

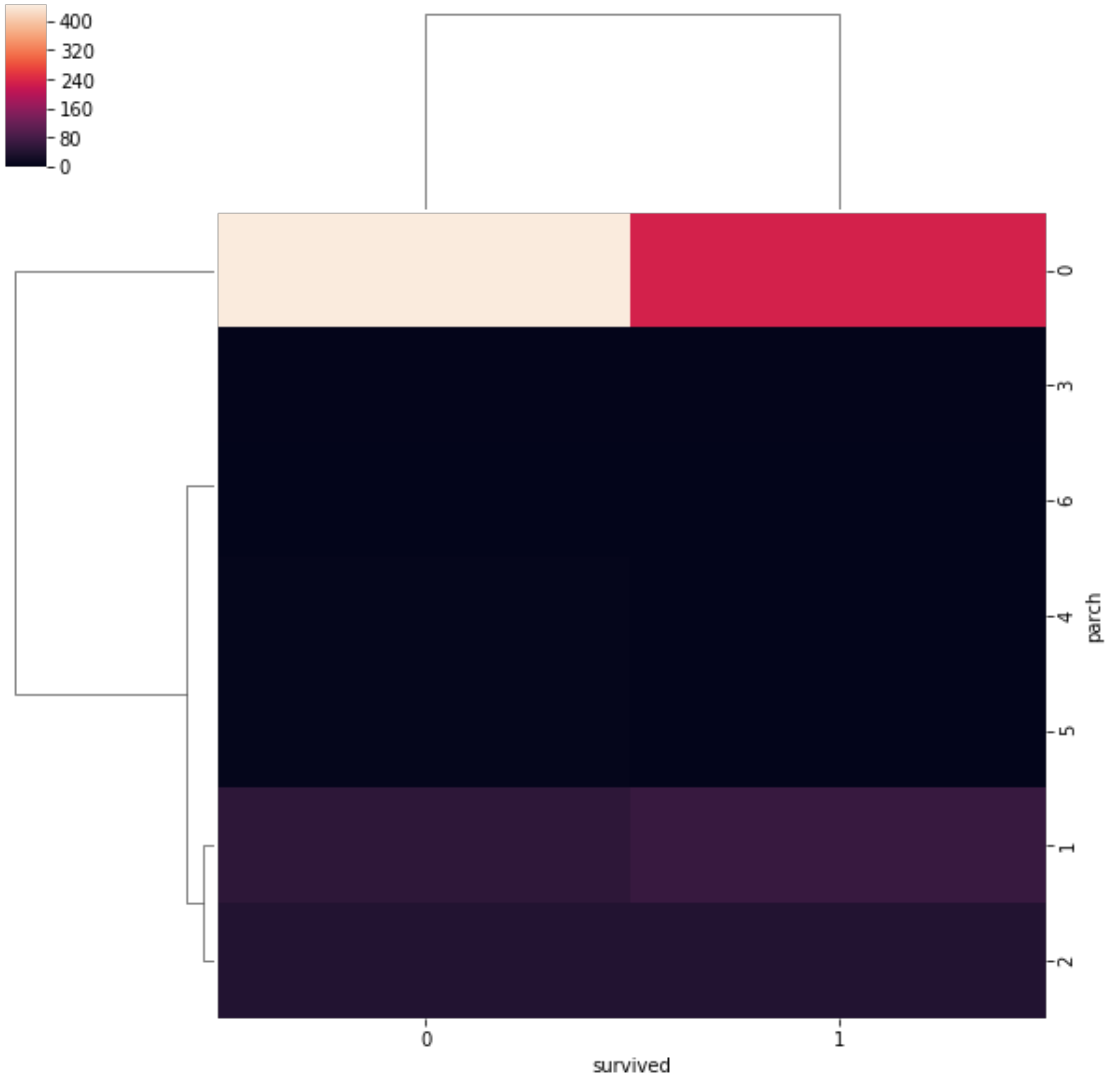
Out[64]:

survived	0	1
pclass		
1	80	136
2	97	87
3	372	119

In [68]:
```
sns.heatmap(pd.crosstab(dataset['pclass'], dataset['survived']))
plt.show()
```



In [70]:
```
sns.clustermap(pd.crosstab(dataset['parch'], dataset['survived']))
plt.show()
```



In [ ]: